IAN | B



MAIL STOP: ISSUE FEE

Attorney Docket No. 249/349

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Notice of Allowance Mailed:

January 4, 2005

Previously Pending in

Art Unit: 2822

Examiner: Christy L. NOVACEK

Confirmation No.

4046

In re the Application of

Jung-hyun LEE, et al.

Serial No.

10/617,767

Filed:

July 14, 2003

For:

DEPOSITION METHOD OF A DIELECTRIC

LAYER

REQUEST FOR ACKNOWLEDGMENT OF ENTRY OF PREVIOUSLY SUBMITTED INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Mail Stop: ISSUE FEE Commissioner for Patents Alexandria, VA 22313-1450

Sir:

An Information Disclosure Statement ("IDS"), Forms PTO/SB/08A and B (2 sheets), an EP Search Report, copies of cited non-U.S. patent references, cited publications, and the fee mandated by 37 C.F.R. §1.17(p) were timely filed on October 12, 2004. A copy of the USPTO receipt evidencing this filing is attached.

In the Notice of Allowability issued January 4, 2005, the Examiner refused entry of certain references for failure to comply with the requirements of 37 C.F.R. §1.98. Contrary to the assertion set forth in the Notice of Allowability, copies of EP 0 540 994 and WO 02/31875 were submitted concurrently with the IDS of October 12, 2004. Copies of the three non-patent publications (identified as Choi, ET Al., Clark-Phelps, ET Al., and Wilk, ET Al.) were also submitted on October 12, 2004. It appears that the references submitted may not have been properly scanned into the PTO electronic files, and this may have prevented the Examiner from fully considering the submission.

Attorney Docket No. 249/349
Page 2 of 3

Serial No. 10/617,767 Request for Acknowledgement of Entry of Previously Submitted IDS...

Further, it appears that the listing of the publications on Form PTO/SB/08B may have given rise to some confusion. This PTO form provides limited space within which to fully identify publications. Therefore the CHOI publication was identified by author, journal, page reference and publication date on the first line with a single asterisk indicating that the title was identified on the second line of the form. Likewise, the CLARK-PHELPS publication was listed on line 3, with a double asterisk indicating the title was set forth on line 4; the WILK reference was listed on line 5 with a triple asterisk indicating the title was set forth on line 6.

U.S. 6,407,435 was identified as a patent family member for JP 2001-267566 for which a full English translation was not available.

To facilitate further consideration of the references originally refused entry, there is attached an annotated copy of Forms PTO/SB/08A and B where (on Form A) each reference currently of record has been so designated, and (on Form B) each of the publication citations has been given a numerical designation in the second column ("Cite No.") further to clarify that only three non-patent publications were being offered for consideration by the Examiner. Duplicate copies of the references originally submitted on October 12, 2004, but refused entry, are also enclosed.

It is submitted that applicant properly and timely complied with the requirements set forth in 37 C.F.R. §1.98 and therefore is entitled to have their IDS submission considered and entered.

In view of the above explanation and the evidentiary submission presented herewith, Applicant respectfully requests that the listed documents be considered by the Examiner and made of record in the present application and that an initialed copy of Forms PTO/SB/08 be returned in accordance with MPEP §609.

Respectfully submitted,

January 26, 2005

Date

LEE, STERBA & MORSE, P.C. 1101 WILSON BOULEVARD, SUITE 2000 ARLINGTON, VA 22209 703.525.0978 TEL 703.525.4265 FAX

2



DEPOSIT ACCOUNT CHARGE AUTHORIZATION

If fee payment is enclosed, this amount is believed to be correct. However, the Director is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. <u>50-1645</u>.

Any additional fee(s) necessary to effect the proper and timely filing of the above-paper may also be charged to Deposit Account No. 50-1645.

PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE der the Paper and Reduction of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known		
Application Number	10/617,767	
Filing Date	July 14, 2003	
First Named Inventor	Jung-hyun LEE, et al	
Art Unit	2822	
Examiner Name	C. L. NOVACEK	
Attorney Docket Number	249/349	

Examiner Cite Initials* No.	Cite	Document Number	U. S. PATENT Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where	
	No.	Number-Kind Code ^{2 (If known)}			Relevant Passages or Relevant Figures Appear	
		^{US-} 6,407,435 B1	06-18-2002	MA, et al.		
_		US-		(entered 3-18-04)		
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
	ļ ———	US-				
		US-				
	 	US-				
		US-				
		US-				
		US-				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T⁵
		EP 0 540 994 A1	05-12-1993	ARGOS, et al.		
		EP 1 341 217 A2	09-03-2003	LEE, et al.	Entered 1/4/05	
		WO 02/31875 A2/A3	04-18-2002	HAUKKA, et al.		L
		JP 2001-267566 *	09-28-2001	MA, et al.	Entered 1/4/05	
		*=US 6,407,435				

Examiner	Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (04-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
D a collection of information unless it contains a valid OMB control number.

	te for form 1449/PTO				Complete if Known	
Substitu	te 101 101111 1443/1 10			Application Number	10/617,767	
INF	ORMATION	DIS	CLOSURE	Filing Date	July 14, 2003	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Jung-hyun LEE, et al	
	#1	-4		Art Unit	2822	
	(Use as many she	ets as n	ecessary)	Examiner Name	C. L. NOVACEK	•
Sheet	2	of	2	Attorney Docket Number	249/349	

		NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
 -	1	CHOI, et al., *, Jpn. J. of Applied Physics, 40(4B, Part 1):2940-2942, (April 2001)	
		* Entitled: "Electrical Characteristics of Pt/SrBi2Ta2O9/Ta2O5/Si Using Ta2O5 as the Buffer Layer"	
	2	CLARK-PHELPS, et al. **, Mat. Res. Soc. Symp. Proc. Vol. 670, Society, K2.2.1-6 (2001)	
		** Entitled: "Engineered tantalum aluminate and hafnium aluminate ALD films for ultrathin "	
	3	WILK, et al., ***, Journal of Applied Physics, Vol. 89, No. 10:5243-5275, (May 15, 2001)	
		***Entitled: "High-k gate dielectrics: Current status and materials properties considerations"	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.



BEST AVAILABLE COPY

DE & CTEDRA DC

Docket No. 249/349

LEE & STERBA, P.C.

The "Received" stamp of the U.S. Patent & Trademark Office hereon acknowledges receipt of the following:

In re the Application of

Jung-hyun LEE, et al.

Serial No. 10/617,767

Filed:

July 14, 2003

Art Unit:

2822

Examiner:

Christy L. NOVACEK

Confirmation No.

4046

For:

DEPOSITION METHOD OF A DIELECTRIC LAYER

☑ Information Disclosure Statement under 37 C.F.R. §1.56 with Form PTO/SB-08, Copy/EP Search Report, 6 Reference(s) and PTO-2038